



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

*Handwritten signature*

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/722,621	11/28/2000	Ken Kumakura	122.1424	5939 /
21171	7590	11/06/2003	EXAMINER	
STAAS & HALSEY LLP SUITE 700 1201 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005			WU, XIAO MIN	
			ART UNIT	PAPER NUMBER
			2674	4

DATE MAILED: 11/06/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/722,621

Applicant(s)

KUMAKURA ET AL.

Examiner

XIAO M. WU

Art Unit

2674

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-54 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-3, 6-8, 11-13, 16-26 and 29-54 is/are rejected.
- 7) ☒ Claim(s) 4, 5, 9, 10, 14, 15, 27 and 28 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. §§ 119 and 120**

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

**Attachment(s)**

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2.
- ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_.
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other:

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-3, 6-8, 11-13, 16-26, 29-54 are rejected under 35 U.S.C. 102(e) as being anticipated by Kang (US Patent No. 6,400,347).
3. As to claims 1, 7-8, 11, 19-21, 26, 29, 34-36, 40, 43-44, 47-49, Kang discloses a display apparatus for displaying a color image by controlling the number of emissions or the intensity thereof in accordance with primary color video signals input thereto, comprising: a detection portion detecting the number of emissions or intensity (e.g. the brightness of each of R, G and B and the color coordinates are measured every sub-field, see col. 7, line 67 to col. 8, line 2); a white balance correction portion correcting white balance by adjusting the amplitudes of the primary color video signals in accordance with the detected number of emissions or the detected intensity (col. 8, lines 16-21).

As to claims 2, 23, 31, 38, 41, 42, Kang discloses the detection portion detects the number of emissions or the intensity from a display ratio (e.g. color ratio) of an image produced by the primary color video signals (col. 4, lines 43-47).

As to claim 3, Kang discloses a control portion controlling the number of emission for, or the intensities of, the primary color video signals in accordance with the display ratio (e.g. color ratio) of the image (col. 4, lines 43-54).

As to claims 6, 16, 22, 30, 32, 37, Kang discloses a look-up table can be used in the driving circuit and thus the white balance is adjusted by the change of data (col. 4, lines 13-15).

As to claims 12, 33, 45, Kang discloses a detection portion detects the number of emissions or the intensity from an external applied luminance-adjusting input (col. 3, lines 30-34).

As to claims 13, 46, Kang discloses a control portion (20, Fig. 4) controlling the number of emissions or the intensity of the primary color video signals with an external applied luminance-adjusting input (col. 3, lines 30-34).

As to claims 17, 24, Kang discloses the emission due to the primary color video signals are produced from phosphors of three primary colors, red, green, and blue (col. 1, lines 35-38).

As to claims 18, 25, Kang discloses that the display apparatus is a plasma display apparatus (col. 1, lines 6).

As to claims 39, 50-54, Kang further discloses an amplitude ratio between the primary color video signals is set in accordance with the luminances of the primary color video signals, thereby suppressing variation of the balance with the luminances (col. 6, lines 20-27).

***Allowable Subject Matter***

4. Claims 4-5, 9-10, 14-15, 27-28 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Art Unit: 2674

***Conclusion***

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The US Patents 5,856,823, 5,936,602, 6,014,258, 6,034,655 are cited to teach a display device including a white balance correction.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Xiao Wu whose telephone number is (703) 305-4721.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hjerpe, can be reached on (703) 305-4709.

**Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks  
Washington, D.C. 20231

**or faxed to:**

**(703) 872-9306**

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington.

VA., Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377

Application/Control Number: 09/722,621

Page 5

Art Unit: 2674

xw

November 2, 2003

  
**XIAO WU**  
**PRIMARY EXAMINER**  
**ART UNIT 2674**